



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

September 4, 2012

Mr. George T. Hamrick  
Vice President  
Shearon Harris Nuclear Power Plant  
Carolina Power and Light Company  
P.O. Box 165, Mail Code: Zone 1  
New Hill, NC 27562-0165

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR  
POWER PLANT (NRC INSPECTION REPORT 05000400/2012006)**

Dear Mr. Hamrick:

On August 15, 2012, the NRC staff completed its mid-cycle performance review of the Shearon Harris Nuclear Power Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011, through June 30, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined the performance at Shearon Harris Nuclear Power Plant during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

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We also plan on conducting several infrequently performed inspections which include: Licensed Operator Requalification, Operator Licensing Exams, and TI 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks."

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 404-997-4603 with any questions you may have regarding this letter.

Sincerely,

*/RA/*

Randall A. Musser, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

Docket No. 50-400  
License No. NPF-63

Enclosure: Harris Inspection/Activity Plan (09/01/2012 – 12/31/2013)

cc w/Encl: (See page 3)

G. Hamrick

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cc w/encl:  
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(cc w/encl continued next page)

G. Hamrick

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Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	01/21/2013 01/25/2013	<b>OL RQ</b>	<b>- REQUAL INSPECTION</b> Licensed Operator Requalification Program	2
1	01/28/2013 02/01/2013	<b>MODS</b>	<b>- PERM MODS 50.59 INSPECTION</b> Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	3
1	02/11/2013 02/15/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	04/29/2013 05/03/2013	<b>EP</b>	<b>- MERGENCY PREPAREDNESS EXERCISE</b> Exercise Evaluation	1
1	04/29/2013 05/03/2013	IP 7111401	Performance Indicator Verification	
1	06/10/2013 06/14/2013	<b>HS</b>	<b>- TRIENNIAL HEAT SINK PERFORMANCE</b> Heat Sink Performance	1
1	06/17/2013 06/21/2013	<b>PSB1-RP</b>	<b>- RP PUBLIC RAD SAFETY BASELINE</b> Radioactive Gaseous and Liquid Effluent Treatment	2
1	06/17/2013 06/21/2013	IP 71124.06	Radiological Environmental Monitoring Program	
1	06/17/2013 06/21/2013	IP 71124.07	Performance Indicator Verification	
1	08/05/2013 08/09/2013	<b>PI&amp;R</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b> Problem Identification and Resolution	5
1	08/19/2013 08/23/2013	IP 71152B	Problem Identification and Resolution	
1	08/12/2013 08/16/2013	<b>OL EXAM</b>	<b>- INITIAL EXAM PREP</b> HARRIS/SEPTEMBER 2012 INITIAL EXAM AT POWER FACILITIES	3
1	09/02/2013 09/06/2013	V23403		
1	09/09/2013 09/13/2013	<b>OL EXAM</b>	<b>- INITIAL EXAM WEEK 1</b> HARRIS/SEPTEMBER 2012 INITIAL EXAM AT POWER FACILITIES	3
1	09/02/2013 09/06/2013	V23403		
1	09/09/2013 09/13/2013	<b>OL EXAM</b>	<b>- INITIAL EXAM WEEK 2</b> HARRIS/SEPTEMBER 2012 INITIAL EXAM AT POWER FACILITIES	3
1	11/04/2013 11/08/2013	V23403		
1	11/04/2013 11/08/2013	<b>PSB1-RP</b>	<b>- RAD HAZARDS ANALYSIS AND TRANSPORTATION</b> Radiological Hazard Assessment and Exposure Controls	3
1	11/04/2013 11/08/2013	IP 71124.01		
1	11/04/2013 11/08/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	11/04/2013 11/08/2013	IP 71151	Performance Indicator Verification	
1	11/11/2013 11/15/2013	<b>ISI</b>	<b>- UNIT 1 INSERVICE INSPECTION</b> Inservice Inspection Activities - PWR	1
1	11/18/2013 11/22/2013	IP 7111108P		
1	11/18/2013 11/22/2013	<b>SGISI</b>	<b>- UNIT 1 SG INSERVICE INSPECTION</b> Inservice Inspection Activities - PWR	1
1	11/18/2013 11/22/2013	IP 7111108P		

Comments:

This report does not include INFO and OUTAGE activities.  
 This report shows only on-site and announced inspection procedures.